

2018 Current Fiscal Year Report: DOE/NSF Nuclear Science Advisory Committee

Report Run Date: 06/05/2019 07:10:45 AM

1. Department or Agency

Department of Energy

2. Fiscal Year

2018

3. Committee or Subcommittee

DOE/NSF Nuclear Science Advisory Committee

3b. GSA Committee No.

1176

4. Is this New During Fiscal Year?

No

5. Current Charter

09/29/2017

6. Expected Renewal Date

09/29/2019

7. Expected Term Date

8a. Was Terminated During Fiscal Year?

No

8b. Specific Termination Authority

8c. Actual Term Date

9. Agency Recommendation for Next Fiscal Year

Continue

10a. Legislation Req to Terminate?

No

10b. Legislation Pending?

Not Applicable

11. Establishment Authority

Agency Authority

12. Specific Establishment Authority

NSF Circular #109, Rev. #3

13. Effective Date

08/11/1975

14. Committee Type

Continuing

14c. Presidential?

No

15. Description of Committee

Scientific Technical Program Advisory Board

16a. Total Number of Reports

1

16b. Report Date

Report Title

03/19/2018 Annual Assessment of the NNSA-Material Management and Minimization Mo-99 Subcommittee Report

Number of Committee Reports Listed: 1

17a. Open 1 17b. Closed 0 17c. Partially Closed 0 Other Activities 0 17d. Total 1

Meetings and Dates

Purpose

Updates from the Department of Energy and the National Science Foundation. Presentation and Discussion of the Mo-99 subcommittee report.

Start

End

03/12/2018 - 03/12/2018

Number of Committee Meetings Listed: 1

	Current FY	Next FY
18a(1). Personnel Pmts to Non-Federal Members	\$0.00	\$0.00
18a(2). Personnel Pmts to Federal Members	\$0.00	\$0.00
18a(3). Personnel Pmts to Federal Staff	\$55,290.00	\$58,182.00
18a(4). Personnel Pmts to Non-Member Consultants	\$0.00	\$0.00
18b(1). Travel and Per Diem to Non-Federal Members	\$23,470.00	\$100,000.00

18b(2). Travel and Per Diem to Federal Members	\$0.00	\$0.00
18b(3). Travel and Per Diem to Federal Staff	\$0.00	\$0.00
18b(4). Travel and Per Diem to Non-member Consultants	\$0.00	\$0.00
18c. Other(rents,user charges, graphics, printing, mail, etc.)	\$45,519.00	\$180,000.00
18d. Total	\$124,279.00	\$338,182.00
19. Federal Staff Support Years (FTE)	0.50	0.50

20a. How does the Committee accomplish its purpose?

NSAC responds to charges, usually issued jointly by NSF and DOE. Most charges relate to issues surrounding facilities or general policy, and are addressed by appointing a subcommittee consisting of NSAC members and members of the nuclear physics community after discussion and voting whether or not to accept the reports, NSAC then transmits any resulting reports with accompanying recommendations. Every 5-7 years, NSAC is charged with preparing a long-range plan for the entire field of nuclear science. This is a broad-based activity easily involving 100-200 people, but is led and overseen by NSAC, which is responsible for the resulting report and its recommendations.

20b. How does the Committee balance its membership?

The membership of the committee has been carefully considered in order to obtain diversity and a balance of disciplines, interest, experiences, points of view, and geographical location. The employers of the members include universities, national laboratories, and the Federal Government. Ex officio non voting representation includes: the chairs of the APS/Division of Nuclear Physics, the ACS/Division of Nuclear Chemistry and Technology and the SNMMI/Society of Nuclear Medicine & Molecular Imaging.

20c. How frequent and relevant are the Committee Meetings?

NSAC meets at least once per year, and as often as 3-4 times per year, depending upon the charges given to NSAC by the two agencies. An NSAC subcommittee organized in response to a charge may meet 5-6 times or more in carrying out its work.

20d. Why can't the advice or information this committee provides be obtained elsewhere?

NSAC provides advice on scientific priorities from recognized scientific and technical experts with specialized knowledge and experience that represents a broad spectrum of views spanning the field and its institutional components. The information provided by NSAC cannot be obtained in other ways.

20e. Why is it necessary to close and/or partially closed committee meetings?

N/A

21. Remarks

This Committee is a joint committee between DOE and NSF with both agencies sharing the direction of NSAC, but DOE will have the administrative responsibility for the committee. Due to three new charges that have been presented to the committee the cost estimate has been adjusted to cover the meetings and expenses that might occur. Last year the committee's expenses were minimal due to only one meeting.

Designated Federal Officer

Timothy J. Hallman Associate Director of the Office of Science, for Nuclear Physics

Committee Members	Start	End	Occupation	Member Designation
Bai, Mei	02/15/2017	04/30/2020	GSI Helmholtzzentrum für Schwerionenforschung GmbH	Special Government Employee (SGE) Member
Caines, Helen	03/23/2016	04/30/2019	Yale University	Special Government Employee (SGE) Member
Dean, David	09/01/2017	04/01/2019	Oak Ridge National Laboratory	Ex Officio Member
Dudek, Jozef	06/04/2018	04/30/2021	College of William & Mary	Representative Member
Evdokimov, Olga	06/04/2018	04/30/2021	University of Illinois	Special Government Employee (SGE) Member
Francesconi, Lynn	01/01/2018	01/01/2019	Hunter College	Ex Officio Member
Fuller, George	03/23/2016	04/30/2019	University of California/San Diego	Special Government Employee (SGE) Member
Greene, Geoffrey	02/15/2017	04/30/2020	University of Tennessee	Special Government Employee (SGE) Member
Hafidi, Kawtar	02/15/2017	10/01/2018	Argonne National Laboratory	Special Government Employee (SGE) Member
Hertzog, David	03/23/2016	04/30/2019	University of Washington	Special Government Employee (SGE) Member
Jones, Kate	03/23/2016	04/30/2019	University of Tennessee	Representative Member
Jurisson, Silvia	02/15/2017	04/30/2020	University of Missouri	Special Government Employee (SGE) Member
Keppel, Cynthia	03/23/2016	04/30/2019	Thomas Jefferson National Accelerator Facility	Special Government Employee (SGE) Member
Kolomensky, Yury	02/15/2017	04/30/2020	University of California	Special Government Employee (SGE) Member
Lapi, Suzanne	06/04/2018	04/30/2021	University of Alabama	Ex Officio Member
Meziani, Zein-Eddine	02/15/2017	04/30/2020	Argonne National Laboratory	Special Government Employee (SGE) Member
Nico, Jeffrey	03/23/2016	04/30/2019	National Institute of Standards and Technology	Regular Government Employee (RGE) Member
Phillips, Daniel	03/23/2016	04/30/2019	Ohio University	Special Government Employee (SGE) Member
Quaglioni, Sofia	02/15/2017	04/30/2020	Lawrence Livermore National Laboratory	Representative Member
Rajagopal, Krishna	03/23/2016	04/30/2019	Massachusetts Institute of Technology	Representative Member
Spyrou, Artemis	06/04/2018	04/30/2021	Michigan State University	Representative Member

Number of Committee Members Listed: 21

Narrative Description

The mission of the DOE Nuclear Physics (NP) program is to conduct experimental and

theoretical basic research in nuclear physics. The DOE/NSF Nuclear Science Advisory Committee (NSAC), upon request, provides advice to both agencies on determining priorities within the field of basic nuclear science research and helps to identify compelling research opportunities. NSAC reports to the Director, Office of Science and to the Assistant Director, Mathematical and Physical Sciences Directorate of the National Science Foundation.

What are the most significant program outcomes associated with this committee?

Checked if Applies

- | | |
|---|-------------------------------------|
| Improvements to health or safety | <input checked="" type="checkbox"/> |
| Trust in government | <input checked="" type="checkbox"/> |
| Major policy changes | <input checked="" type="checkbox"/> |
| Advance in scientific research | <input checked="" type="checkbox"/> |
| Effective grant making | <input checked="" type="checkbox"/> |
| Improved service delivery | <input checked="" type="checkbox"/> |
| Increased customer satisfaction | <input checked="" type="checkbox"/> |
| Implementation of laws or regulatory requirements | <input checked="" type="checkbox"/> |
| Other | <input type="checkbox"/> |

Outcome Comments

NA

What are the cost savings associated with this committee?

Checked if Applies

- | | |
|----------------------------|-------------------------------------|
| None | <input type="checkbox"/> |
| Unable to Determine | <input checked="" type="checkbox"/> |
| Under \$100,000 | <input type="checkbox"/> |
| \$100,000 - \$500,000 | <input type="checkbox"/> |
| \$500,001 - \$1,000,000 | <input type="checkbox"/> |
| \$1,000,001 - \$5,000,000 | <input type="checkbox"/> |
| \$5,000,001 - \$10,000,000 | <input type="checkbox"/> |
| Over \$10,000,000 | <input type="checkbox"/> |
| Cost Savings Other | <input type="checkbox"/> |

Cost Savings Comments

NA

What is the approximate Number of recommendations produced by this committee for the life of the committee?

Number of Recommendations Comments

Since April of 1978, 76 reports have been issued covering all aspects of user facilities, research, planning, and program management. NSAC recommendations are made in response to written charges from the agencies. Within a given charge there may be more than one area of recommendation that DOE/NSF requests. This number varies from year to year. These reports contain more than 168 separate and distinct recommendations with individual reports having as few as two and as many as fifteen recommendations. Reports on progress and implementation made at subsequent Committee meetings and/or in writing are posted on the Committee website. Since 2014, one annual NSAC report, an assessment of the NNSA Mo 99 program, has been mandated by statute.

What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?

0%

% of Recommendations Fully Implemented Comments

NA

What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?

100%

% of Recommendations Partially Implemented Comments

NA

Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?

Yes ☒ No ☐ Not Applicable ☐

Agency Feedback Comments

Both DOE and NSF communicate and report to NSAC on current activities in the context of implementing recommendations offered by NSAC at each meeting. Feedback is provided to the Committee by the Associate Director of Science for Nuclear Physics (DOE) and the Director of the Physics Division (NSF), or their designees. In addition, they provide verbal reports regarding NSAC activities to the nuclear science community at its annual divisional meetings. Also, on an annual basis, the Director for the Office of Science (DOE) and the Assistant Director of the Mathematics and Physical Science Directorate

(NSF) provide feedback to NSAC via formal presentations at an NSAC Meeting.

What other actions has the agency taken as a result of the committee's advice or recommendation?

Checked if Applies

Reorganized Priorities	<input checked="" type="checkbox"/>
Reallocated resources	<input checked="" type="checkbox"/>
Issued new regulation	<input type="checkbox"/>
Proposed legislation	<input type="checkbox"/>
Approved grants or other payments	<input type="checkbox"/>
Other	<input checked="" type="checkbox"/>

Action Comments

Some NSAC reports, notably the annual Mo 99 report, have resulted in the initiation of, or stimulated progress toward, new DOE activities, such as the uranium lease and take-back program.

Is the Committee engaged in the review of applications for grants?

No

Grant Review Comments

NA

How is access provided to the information for the Committee's documentation?

Checked if Applies

Contact DFO	<input checked="" type="checkbox"/>
Online Agency Web Site	<input checked="" type="checkbox"/>
Online Committee Web Site	<input checked="" type="checkbox"/>
Online GSA FACA Web Site	<input checked="" type="checkbox"/>
Publications	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

Access Comments

N/A